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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	New Divisional Application based on USSN: 10/189,212
				Filing Date	July 7, 2003
				First Named Inventor	Richard W. Gross et al.
				Group Art Unit	2662 (expected) 2616
				Examiner Name	Ahmed Elallam (expected)
Sheet	1	of	5	Attorney Docket Number	081513-329

U.S. PATENT DOCUMENTS						
Examiner Initials ²	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ³ (if known)			
AE ↓ AE		3,573,380		Darlington	04/06/1971	
		4,131,766		Narasimha	12/26/1978	
		4,568,156		Dane	02/04/1986	
		4,679,227		Hughes-Hartogs	07/07/1987	
		4,731,816		Hughes-Hartogs	03/15/1988	
		4,802,190		Schouhamer Immink	01/31/1989	
		4,912,763		Galand et al.	03/27/1990	
		5,048,054		Eyuboglu et al.	09/10/1991	
		5,128,964		Mallory	07/07/1992	
		5,206,886		Bingham	04/27/1993	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)			
AE ↓ AE			EP 0 473 465	B1 ✓		03/04/1992	
			EP 0 652 677	A2 ✓		05/10/1995	
			EP 0 703 685	A2 ✓		03/27/1996	
			EP 0 753 947	A1 ✓		01/15/1997	
			EP 0 762 701	A2 ✓		03/12/1997	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
AE		John A. C. Bingham (May 1990), "Multicarrier Modulation For Data Transmission: An Idea Whose Time Has Come," <u>IEEE Communications Magazine</u> , pp. 5-14.		
AE		Shoham et al. (September 1988), "Efficient Bit Allocation for an Arbitrary Set of Quantizers," <u>IEEE Transactions on Acoustics, Speech and Signal Processing</u> , 36(9): 1445- 1453.		

Examiner Signature	/Ahmed Elallam/	Date Considered	12/09/2006
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		Number	Kind Code ² (if known)			
AE ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ AE		5,285,474		Chow et al.	02/08/1994	
		5,327,574		Monma et al.	07/05/1994	
		5,400,322		Hunt et al.	03/21/1995	
		5,428,790		Harper et al.	06/27/1995	
		5,452,288		Rahuel et al.	09/19/1995	
		5,479,447		Chow et al.	12/26/1995	
		5,497,398		Tzannes et al.	03/05/1996	
		5,521,906		Grube et al.	05/28/1996	
		5,533,008		Grube et al.	07/02/1996	
		5,555,244		Gupta et al.	09/10/1996	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
AE ↓ ↓ ↓ ↓ AE			EP 0 812 087	✓ A2		12/10/1997		
			EP 0 820 168	✓ A2		01/21/1998		
			EP 0 840 474	✓ A2		05/06/1998		
			EP 0 905 948	✓ A2		03/31/1999		
			WO 86/07223	✓		12/04/1986		

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AE		John M. Cioffi "A Multicarrier Primer,;" <u>Amati Communications Corporation and Stanford University</u> , pp.1-18.	✓	
AE		John A. C. Bingham (May 1996), "RFI Suppression in Multicarrier Transmission Systems," Amati Communications, <u>IEEE Communications Magazine</u> , pp. 1026-1030.	✓	

Examiner Signature	/Ahmed Elallam/	Date Considered	12/09/2006
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		Number	Kind Code ² (if known)			
AE ↓		5,596,604		Cioffi et al.	01/21/1997	
		5,598,435		Williams	01/28/1997	
		5,625,651		Cioffi	04/29/1997	
		5,636,246		Tzannes et al.	06/03/1997	
		5,644,573		Bingham et al.	07/01/1997	
		5,673,290		Cioffi	09/30/1997	
		5,731,706		Koeman et al.	03/24/1998	
		5,805,669		Bingel et al.	09/08/1998	
		5,812,599		Van Kerckhove	09/22/1998	
	AE	5,822,372		Emami	10/13/1998	

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		Office ³	Number ⁴ Kind Code ² (if known)			
AE ↓			WO 97/15131 ✓		04/24/1997	
			WO 98/10556 ✓		03/12/1998	
			WO 98/27665 ✓		06/25/1998	
			WO 98/57472 ✓		12/17/1998	
	AE		WO 98/59476 ✓		12/30/1998	

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AE		Atungsiri et al. (June 1997), "Multirate Coding for Mobile Communications Link Adaptation," <u>IEEE Proc. Commun.</u> , 144(3):211-216.	✓
AE		Related Application USSN. 09/597,926 with a copy of Preliminary Amendment as filed.	

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		Number	Kind Code ² (if known)			
AE ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ AE		5,822,374		Levin	10/13/1998	
		5,832,387		Bae et al.	11/03/1998	
		5,852,633		Levin et al.	12/1998	
		5,903,608		Chun	05/1999	
		5,933,454		Cioffi	08/03/1999	
		5,960,036		Johnson et al.	09/1999	
		6,005,893		Hyll	12/1999	
		6,014,425		Bingel et al.	01/11/2000	
		6,028,486		Andre	02/22/2000	
		6,052,411		Mueller et al.	04/18/2000	

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		Office ³	Number ⁴ (if known)				
AE ↓ ↓ ↓ ↓ AE			WO 99/16224 ✓		09/09/1998		
			WO 99/18701 ✓		04/15/1999		
			JP 60-112357 ✓		06/18/1985		
			JP 62-502932 ✓		11/19/1987		
			JP 11-168515 ✓		06/22/1999		

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AE ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ AE		6,055,297		Terry	04/25/2000	
		6,061,392		Bremer et al.	05/09/2000	
		6,065,060		Liu et al.	04/2000	
		6,072,779		Tzannes et al.	06/06/2000	
		6,073,179		Liu et al.	06/06/2000	
		6,092,122		Liu et al.	07/18/2000	
		6,101,216		Henderson et al.	08/08/2000	
		6,128,335		Liu et al.	10/02/2000	
		6,144,696		Shively et al.	11/07/2000	
		6,161,203		Zuranski et al.	12/12/2000	
		6,219,378		Wu	04/17/2001	
		6,229,855 X		Takatori et al.	05/08/2001	

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		Office ³	Number ⁴	Kind Code ² (if known)				
AE ↓ ↓ ↓ AE			JP 7-336274	✓	Nakatsuka Monta	12-22-1995	English Abstract only	
			JP 4-22235	✓	Hinokimoto Shinichi	01-27-1992	English Abstract only	
			JP 9-51328	✓	Chun You-Sik	02-18-1997	English Abstract only	

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